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Board-Foot and Cubic-Foot Volume Tables for Western Redcedar in Southeast Alaska

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Abstract

Four tables give cubic-foot and board-foot volume estimates for western redcedar given breast height diameter outside bark (DBHOB) and either total tree height or number of logs to a 6-inch top. The values for DBHOB and total tree height (or number of logs in the tree) that are in the tables have been limited to the ranges these variables had in the sample data.

Keywords: Western redcedar, *Thuja plicata*, volume tables, profile equations, southeast Alaska, mensuration.

Introduction

The four volume tables presented in this paper are for managers and field foresters who do not have ready access to computing facilities. These tables have been produced because the stem profile equations developed for western redcedar (*Thuja plicata* Donn. ex D. Don) do not lend themselves to easy solving on hand-held calculators. Profile equations usually require a computer program equipped with many complex routines to calculate the volume and other estimates that such equations can provide.

DeMars[1] gives details on the development of the profile equations including a description of the basic data, methods of data analysis, the conditioning of the equations, and statistics on each equation.

The four tables presented give cubic-foot and board-foot volume estimates for western redcedar given tree diameter at breast height outside bark (DBHOB) and either total tree height or number of logs to a 6-inch top (log length for the Tongass National Forest is on a long-log bases; that is, 32.6 feet in length). The values for DBHOB and total tree height (or number of logs in the tree) that are in the tables have been limited to the ranges these variables had in the sample data. The merchantable top diameter for the tables is based on a 6-inch scale diameter (that is, 6.5 inches is the midpoint of a 6-inch scale diameter). Stump height is set at 1 foot for trees with DBHOB less than or equal to 36 inches and is set at (DBHOB/36) feet for trees with DBHOB greater than 36 inches.

Tables 1 and 2 are entered by using DBHOB and total tree height (in feet). Table 1 gives estimates of board-foot volume for each half-log segment along with an estimate of total board-foot volume in the tree stem. Table 2 gives estimates of cubic-foot volume for each half-log segment (log length is 32 feet) along with an estimate of total cubic-foot volume of the merchantable part of the tree stem. An estimate of cubic feet (or board feet) for the odd chunk-length tree segment that lies between the top of the upper most half-log and the estimated height of the top merchantable diameter are also included in tables 1 and 2.

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[1] DeMars, Donald J. Relative diameter and relative basal area as dependent variables in tree profile equations. Manuscript in preparation.

Tables 3 and 4 are entered by DBHOB and number of logs in the tree (in terms of whole logs and half-logs) to the merchantable top diameter. Table 3 gives estimates of board-foot volume for each half-log segment along with an estimate of total board-foot volume in the tree stem. Table 4 gives estimates of cubic-foot volume for each half-log segment along with an estimate of total cubic-foot volume of the merchantable part of the tree stem. Estimates of total tree height in tables 3 and 4 are calculated from the profile equations by an iterative routine.

Table 1—Scribner board-foot volume of western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree, given diameter at breast height (d.b.h.) in inches and total tree height in feet

			Board-foot volume											
			32-foot log position											
D.b.h.	Tree ht.	No. of 32-ft logs	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	Total tree vol.	Chunk length
In	*Ft*												*Bf*	*Feet*
10	40	0.5	20	—	—	—	—	—	—	—	—	—	20	16
10	50	1.0	26	5	—	—	—	—	—	—	—	—	31	4
10	60	1.0	29	11	—	—	—	—	—	—	—	—	40	10
10	70	1.5	30	22	2	—	—	—	—	—	—	—	54	2
12	40	1.0	26	2	—	—	—	—	—	—	—	—	28	2
12	50	1.0	29	11	—	—	—	—	—	—	—	—	40	10
12	60	1.0	32	16	—	—	—	—	—	—	—	—	48	16
12	70	1.5	36	25	10	—	—	—	—	—	—	—	71	8
12	80	1.5	42	27	20	—	—	—	—	—	—	—	89	16
14	50	1.0	32	11	—	—	—	—	—	—	—	—	43	12
14	60	1.5	38	18	2	—	—	—	—	—	—	—	58	2
14	70	1.5	47	22	15	—	—	—	—	—	—	—	84	12
14	80	2.0	56	32	26	5	—	—	—	—	—	—	119	4
14	90	2.0	62	46	29	14	—	—	—	—	—	—	151	12
16	50	1.0	35	8	—	—	—	—	—	—	—	—	43	12
16	60	1.5	43	18	5	—	—	—	—	—	—	—	66	4
16	70	1.5	56	28	17	—	—	—	—	—	—	—	101	14
16	80	2.0	68	46	27	7	—	—	—	—	—	—	148	6
16	90	2.0	75	57	31	15	—	—	—	—	—	—	178	14
16	100	2.5	80	64	39	23	10	—	—	—	—	—	216	8
18	60	1.5	47	18	7	—	—	—	—	—	—	—	72	6
18	70	1.5	67	32	17	—	—	—	—	—	—	—	116	14
18	80	2.0	81	51	28	9	—	—	—	—	—	—	169	8
18	90	2.0	89	63	34	17	—	—	—	—	—	—	203	—
18	100	2.5	94	75	46	22	12	—	—	—	—	—	249	10
18	110	3.0	98	86	58	35	26	2	—	—	—	—	305	2
20	70	1.5	77	40	20	—	—	—	—	—	—	—	137	16
20	80	2.0	94	54	28	9	—	—	—	—	—	—	185	8
20	90	2.5	107	68	37	17	2	—	—	—	—	—	231	2
20	100	2.5	118	84	51	23	15	—	—	—	—	—	291	12

Table 1—Scribner board-foot volume of western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree, given diameter at breast height (d.b.h.) in inches and total tree height in feet (continued)

D.b.h.	Tree ht.	No. of 32-ft logs	Board-foot volume											
			32-foot log position										Total tree vol.	Chunk length
			0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0		
In	*Ft*												*Bf*	*Feet*
20	110	3.0	128	94	66	45	27	4	—	—	—	—	364	4
20	120	3.0	134	106	79	57	31	15	—	—	—	—	422	14
22	70	1.5	87	39	20	—	—	—	—	—	—	—	146	16
22	80	2.0	106	54	29	11	—	—	—	—	—	—	200	10
22	90	2.5	125	77	39	17	2	—	—	—	—	—	260	2
22	100	2.5	143	97	56	26	15	—	—	—	—	—	337	12
22	110	3.0	154	121	75	49	27	7	—	—	—	—	433	6
22	120	3.0	158	134	88	62	33	17	—	—	—	—	492	16
24	70	1.5	95	39	20	—	—	—	—	—	—	—	154	16
24	80	2.0	120	61	30	10	—	—	—	—	—	—	221	10
24	90	2.5	150	85	41	17	5	—	—	—	—	—	298	4
24	100	2.5	168	116	61	29	17	—	—	—	—	—	391	14
24	110	3.0	180	136	81	53	27	7	—	—	—	—	484	6
24	120	3.0	187	148	97	66	35	15	—	—	—	—	548	—
26	80	2.0	134	64	30	10	—	—	—	—	—	—	238	10
26	90	2.5	172	98	42	18	5	—	—	—	—	—	335	4
26	100	2.5	195	125	66	33	17	—	—	—	—	—	436	14
26	110	3.0	213	147	87	55	28	9	—	—	—	—	539	8
26	120	3.5	224	170	109	69	37	16	2	—	—	—	627	2
26	130	3.5	228	184	133	89	52	24	12	—	—	—	722	10
28	80	2.0	156	66	30	10	—	—	—	—	—	—	262	10
28	90	2.5	198	106	43	18	5	—	—	—	—	—	370	4
28	100	2.5	226	139	70	35	17	—	—	—	—	—	487	14
28	110	3.0	247	171	96	54	28	9	—	—	—	—	605	8
28	120	3.5	256	194	120	78	39	16	2	—	—	—	705	2
28	130	3.5	259	206	149	106	56	26	15	—	—	—	817	12
30	90	2.5	219	116	44	17	5	—	—	—	—	—	401	4
30	100	2.5	254	158	75	39	17	—	—	—	—	—	543	14
30	110	3.0	274	191	104	56	29	8	—	—	—	—	662	8
30	120	3.5	288	224	135	83	40	17	2	—	—	—	789	2
30	130	3.5	296	248	165	119	61	29	15	—	—	—	933	12
30	140	4.0	294	258	189	141	84	54	27	7	—	—	1054	6
32	90	2.5	247	123	45	17	5	—	—	—	—	—	437	4
32	100	2.5	288	172	80	40	20	—	—	—	—	—	600	16
32	110	3.0	316	220	111	61	30	10	—	—	—	—	748	10
32	120	3.5	333	247	152	93	41	18	5	—	—	—	889	4
32	130	3.5	341	264	184	128	66	33	17	—	—	—	1033	14
32	140	4.0	337	273	212	153	90	56	27	7	—	—	1155	6

Table 1—Scribner board-foot volume of western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree, given diameter at breast height (d.b.h.) in inches and total tree height in feet (continued)

			Board-foot volume											
		No. of 32-ft	32-foot log position										Total	
D.b.h.	Tree ht.	logs	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	tree vol.	Chunk length
In	*Ft*												*Bf*	*Feet*
34	90	2.5	276	142	47	16	5	—	—	—	—	—	486	4
34	100	2.5	322	198	86	40	20	—	—	—	—	—	666	16
34	110	3.0	357	238	119	65	30	10	—	—	—	—	819	10
34	120	3.5	374	266	169	106	43	18	5	—	—	—	981	4
34	130	3.5	379	291	206	139	72	36	17	—	—	—	1140	14
34	140	4.0	374	304	241	171	99	55	28	9	—	—	1281	8
36	90	2.5	309	151	49	16	5	—	—	—	—	—	530	4
36	100	2.5	366	214	92	42	20	—	—	—	—	—	734	16
36	110	3.0	399	253	132	70	31	9	—	—	—	—	894	10
36	120	3.5	419	299	186	114	46	18	5	—	—	—	1087	4
36	130	3.5	427	329	231	151	77	43	17	—	—	—	1275	14
36	140	4.0	427	341	261	194	107	59	29	8	—	—	1426	8
38	100	2.5	406	228	99	43	25	—	—	—	—	—	801	—
38	110	3.0	444	290	151	75	33	10	—	—	—	—	1003	12
38	120	3.5	467	325	208	122	49	18	7	—	—	—	1196	6
38	130	3.5	482	361	256	174	85	45	20	—	—	—	1423	16
38	140	4.0	484	381	290	222	117	67	30	10	—	—	1601	10
38	150	4.5	470	384	322	258	161	104	42	17	2	—	1760	2
40	100	3.0	446	264	107	45	26	2	—	—	—	—	890	2
40	110	3.0	488	322	171	89	34	9	—	—	—	—	1113	12
40	120	3.5	520	389	231	139	54	18	7	—	—	—	1358	6
40	130	3.5	534	426	282	193	94	46	25	—	—	—	1600	—
40	140	4.0	536	448	331	249	131	75	31	9	—	—	1810	10
40	150	4.5	528	448	355	279	182	118	45	17	5	—	1977	4
42	110	3.0	554	382	195	101	37	9	—	—	—	—	1278	14
42	120	3.5	583	437	262	162	60	20	10	—	—	—	1534	8
42	130	4.0	598	482	323	229	103	49	25	3	—	—	1812	2
42	140	4.0	598	508	367	267	153	82	34	9	—	—	2018	12
42	150	4.5	583	517	403	315	207	128	49	17	5	—	2224	4
44	110	3.0	613	437	219	116	37	9	—	—	—	—	1431	14
44	120	3.5	642	494	295	180	67	23	10	—	—	—	1711	8
44	130	4.0	652	526	365	245	114	55	26	2	—	—	1985	2
44	140	4.0	651	539	415	303	178	102	35	8	—	—	2231	12
44	150	4.5	637	547	453	345	235	147	54	16	7	—	2441	6
46	110	3.0	669	491	256	132	40	10	—	—	—	—	1598	16
46	120	3.5	691	538	345	220	79	29	12	—	—	—	1914	10
46	130	4.0	707	585	414	280	128	62	27	4	—	—	2207	4

Table 1—Scribner board-foot volume of western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree, given diameter at breast height (d.b.h.) in inches and total tree height in feet (continued)

			Board-foot volume											
			32-foot log position											
D.b.h.	Tree ht.	No. of 32-ft logs	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	Total tree vol.	Chunk length
In	*Ft*												*Bf*	*Feet*
46	140	4.0	706	604	471	339	203	113	37	9	—	—	2482	14
46	150	4.5	692	609	516	420	267	178	60	20	7	—	2769	6
48	110	3.0	739	535	295	165	42	9	—	—	—	—	1785	—
48	120	3.5	778	609	393	241	92	36	12	—	—	—	2161	10
48	130	4.0	788	652	470	322	159	71	27	4	—	—	2493	4
48	140	4.0	773	677	532	420	235	135	38	8	—	—	2818	14
48	150	4.5	755	690	579	491	308	204	71	22	10	—	3130	8
50	110	3.5	838	597	353	199	45	11	2	—	—	—	2045	2
50	120	3.5	867	643	450	292	105	39	15	—	—	—	2411	12
50	130	4.0	877	696	541	403	189	91	27	4	—	—	2828	4
50	140	4.0	857	725	612	494	281	159	39	7	—	—	3174	14
50	150	4.5	839	740	648	536	363	237	84	30	10	—	3487	8
50	160	5.0	800	750	668	579	429	305	139	63	26	2	3761	2
52	120	3.5	940	705	523	353	121	42	15	—	—	—	2699	12
52	130	4.0	966	784	623	477	218	107	29	5	—	—	3209	6
52	140	4.0	964	806	673	541	326	194	42	8	—	—	3554	16
52	150	4.5	947	813	717	615	418	268	95	35	12	—	3920	10
52	160	5.0	879	811	747	678	495	359	170	75	26	2	4242	2
54	120	3.5	1080	833	608	432	143	51	17	—	—	—	3164	14
54	130	4.0	1114	946	685	529	264	130	30	4	—	—	3702	6
54	140	4.0	1099	977	763	635	383	222	44	7	—	—	4130	—
54	150	4.5	1071	997	807	683	479	319	109	37	12	—	4514	10
54	160	5.0	1017	938	839	737	574	436	198	94	27	4	4864	4
56	120	3.5	1212	968	679	505	177	63	17	—	—	—	3621	14
56	130	4.0	1228	1029	794	626	315	155	32	5	—	—	4184	8
56	140	4.0	1221	1070	881	689	443	267	48	8	—	—	4627	—
56	150	4.5	1188	1086	923	737	567	401	124	39	12	—	5077	10
56	160	5.0	1129	1071	966	824	653	507	236	109	27	4	5526	4

Table 2—Cubic-foot volume for western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree, given diameter at breast height (d.b.h.) in inches and total tree height in feet

D.b.h.	Tree ht.	No. of 32-ft logs	Cubic-foot volume (stump to top diameter)											Chunk length
			32-foot log position										Total tree vol.	
			0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0		
In	*Ft*												*Ft* ^{3}	*Feet*
10	40	0.5	6.2	—	—	—	—	—	—	—	—	—	6.2	16
10	50	1.0	6.8	1.3	—	—	—	—	—	—	—	—	8.1	4
10	60	1.0	7.0	3.1	—	—	—	—	—	—	—	—	10.1	10
10	70	1.5	7.2	5.0	0.3	—	—	—	—	—	—	—	12.5	2
12	40	1.0	8.9	0.7	—	—	—	—	—	—	—	—	9.6	2
12	50	1.0	9.6	2.8	—	—	—	—	—	—	—	—	12.4	10
12	60	1.0	10.0	5.5	—	—	—	—	—	—	—	—	15.5	16
12	70	1.5	10.2	6.6	2.1	—	—	—	—	—	—	—	18.9	8
12	80	1.5	10.4	7.5	4.8	—	—	—	—	—	—	—	22.7	16
12	90	2.0	10.5	8.1	6.0	1.9	—	—	—	—	—	—	26.5	8
14	50	1.0	12.8	4.0	—	—	—	—	—	—	—	—	16.8	12
14	60	1.5	13.4	6.9	.8	—	—	—	—	—	—	—	21.1	2
14	70	1.5	13.8	8.4	3.4	—	—	—	—	—	—	—	25.6	12
14	80	2.0	14.0	9.6	6.1	.8	—	—	—	—	—	—	30.5	4
14	90	2.0	14.2	10.4	7.5	3.5	—	—	—	—	—	—	35.6	12
16	60	1.5	17.2	8.2	1.3	—	—	—	—	—	—	—	26.7	4
16	70	1.5	17.7	10.2	4.6	—	—	—	—	—	—	—	32.5	14
16	80	2.0	18.1	11.7	7.2	1.6	—	—	—	—	—	—	38.6	6
16	90	2.0	18.3	12.9	9.1	4.9	—	—	—	—	—	—	45.2	14
16	100	2.5	18.4	13.6	10.6	7.1	2.0	—	—	—	—	—	51.7	8
18	60	1.5	21.4	9.5	1.6	—	—	—	—	—	—	—	32.5	6
18	70	1.5	22.2	12.1	5.4	—	—	—	—	—	—	—	39.7	14
18	80	2.0	22.6	14.0	8.3	2.2	—	—	—	—	—	—	47.1	8
18	90	2.0	22.9	15.5	10.6	6.0	—	—	—	—	—	—	55.0	—
18	100	2.5	23.1	16.5	12.4	8.2	2.9	—	—	—	—	—	63.1	10
18	110	3.0	23.1	17.1	13.9	10.1	6.2	0.6	—	—	—	—	71.0	2
20	70	1.5	27.0	13.8	6.1	—	—	—	—	—	—	—	46.9	16
20	80	2.0	27.6	16.3	9.3	2.7	—	—	—	—	—	—	55.9	8
20	90	2.5	28.0	18.2	12.0	6.6	.5	—	—	—	—	—	65.3	2
20	100	2.5	28.2	19.4	14.3	9.2	3.6	—	—	—	—	—	74.7	12
20	110	3.0	28.3	20.3	16.1	11.5	7.0	1.2	—	—	—	—	84.4	4
20	120	3.0	28.2	20.7	17.4	13.5	9.2	4.5	—	—	—	—	93.5	14
22	70	1.5	32.4	15.6	6.6	—	—	—	—	—	—	—	54.6	16
22	80	2.0	33.2	18.6	10.2	3.0	—	—	—	—	—	—	65.0	10
22	90	2.5	33.6	20.9	13.4	7.2	.7	—	—	—	—	—	75.8	2
22	100	2.5	33.9	22.6	16.1	10.1	4.2	—	—	—	—	—	86.9	12
22	110	3.0	34.0	23.6	18.3	12.9	7.7	1.6	—	—	—	—	98.1	6
22	120	3.0	33.9	24.1	20.0	15.2	10.3	5.4	—	—	—	—	108.9	16

Table 2—Cubic-foot volume for western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree, given diameter at breast height (d.b.h.) in inches and total tree height in feet (continued)

			Cubic-foot volume (stump to top diameter)											
			32-foot log position											
D.b.h.	Tree ht.	No. of 32-ft logs	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	Total tree vol.	Chunk length
In	*Ft*												*Ft³*	*Feet*
24	70	1.5	38.1	17.4	6.8	—	—	—	—	—	—	—	62.3	16
24	80	2.0	39.1	21.1	11.0	3.2	—	—	—	—	—	—	74.4	10
24	90	2.5	39.7	23.8	14.7	7.6	0.9	—	—	—	—	—	86.7	4
24	100	2.5	40.1	25.8	17.9	11.0	4.7	—	—	—	—	—	99.5	14
24	110	3.0	40.2	27.1	20.5	14.2	8.3	2.0	—	—	—	—	112.3	6
24	120	3.0	40.2	27.8	22.5	16.9	11.3	6.1	—	—	—	—	124.8	—
26	80	2.0	45.5	23.5	11.7	3.3	-	—	—	—	—	—	84.0	
26	90	2.5	46.3	26.8	16.0	8.0	1.0	—	—	—	—	—	98.1	4
26	100	2.5	46.8	29.2	19.7	11.9	5.1	—	—	—	—	—	112.7	14
26	110	3.0	46.9	30.8	22.8	15.4	9.0	2.3	—	—	—	—	127.2	8
26	120	3.5	46.9	31.6	25.1	18.6	12.3	6.6	0.3	—	—	—	141.4	2
26	130	3.5	46.6	31.8	26.8	21.2	15.3	9.6	3.5	—	—	—	154.8	10
28	80	2.0	52.5	26.1	12.4	3.3	—	—	—	—	—	—	94.3	10
28	90	2.5	53.4	30.0	17.3	8.4	1.9	—	—	—	—	—	111.0	4
28	100	2.5	53.9	32.8	21.6	12.7	5.5	—	—	—	—	—	126.5	14
28	110	3.0	54.2	34.6	25.1	16.7	9.5	2.6	—	—	—	—	142.7	8
28	120	3.5	54.1	35.6	27.8	20.3	13.2	7.0	.5	—	—	—	158.5	2
28	130	3.5	53.9	35.9	29.8	23.3	16.7	10.4	4.0	—	—	—	174.0	12
30	90	2.5	61.0	33.3	18.6	8.8	1.1	—	—	—	—	—	122.8	4
30	100	2.5	61.6	36.5	23.5	13.5	5.8	—	—	—	—	—	140.9	14
30	110	3.0	61.9	38.7	27.6	18.0	10.1	2.8	—	—	—	—	159.1	8
30	120	3.5	61.9	39.9	30.7	22.1	14.2	7.5	.7	—	—	—	177.0	2
30	130	3.5	61.6	40.3	32.9	25.4	18.0	11.1	4.4	—	—	—	193.7	12
30	140	4.0	61.1	39.8	34.2	28.1	21.4	14.7	8.4	1.7	—	—	209.4	6
32	90	2.5	69.1	36.8	20.0	9.1	1.2	—	—	—	—	—	136.2	4
32	100	2.5	69.9	40.6	25.6	14.4	6.2	—	—	—	—	—	156.7	16
32	110	3.0	70.2	43.1	30.2	19.4	10.8	3.1	—	—	—	—	176.8	10
32	120	3.5	70.2	44.5	33.7	24.0	15.3	8.0	.9	—	—	—	196.6	4
32	130	3.5	69.9	45.0	36.3	27.8	19.5	12.0	4.9	—	—	—	215.4	14
32	140	4.0	69.4	44.5	37.8	30.7	23.3	15.9	9.1	2.0	—	—	232.7	6
34	90	2.5	77.7	40.6	21.6	9.6	1.3	—	—	—	—	—	150.8	4
34	100	2.5	78.6	44.9	27.8	15.4	6.6	—	—	—	—	—	173.3	16
34	110	3.0	79.0	47.8	33.0	21.0	11.5	3.4	—	—	—	—	195.7	10
34	120	3.5	79.0	49.4	37.0	26.0	16.4	8.5	1.1	—	—	—	217.4	4
34	130	3.5	78.7	50.0	39.9	30.3	21.1	12.9	5.5	—	—	—	238.4	14
34	140	4.0	78.1	49.5	41.7	33.6	25.3	17.2	9.8	2.3	—	—	257.5	8

Table 2—Cubic-foot volume for western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree, given diameter at breast height (d.b.h.) in inches and total tree height in feet (continued)

D.b.h.	Tree ht.	No. of 32-ft logs	Cubic-foot volume (stump to top diameter)											Chunk length
			32-foot log position										Total tree vol.	
			0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0		
In	*Ft*												*Ft*^{3}	*Feet*
36	90	2.5	87.0	44.8	23.4	10.1	1.4	—	—	—	—	—	166.7	4
36	100	2.5	87.9	49.6	30.3	16.5	7.1	—	—	—	—	—	191.4	16
36	110	3.0	88.4	52.9	36.1	22.7	12.3	3.8	—	—	—	—	216.2	10
36	120	3.5	88.4	54.8	40.7	28.3	17.8	9.1	1.4	—	—	—	240.5	4
36	130	3.5	88.1	55.4	43.9	33.1	23.0	13.9	6.1	—	—	—	263.5	14
36	140	4.0	87.4	54.9	45.9	36.8	27.6	18.7	10.6	2.8	—	—	284.7	8
38	100	2.5	97.5	54.7	33.2	17.8	7.6	—	—	—	—	—	210.8	—
38	110	3.0	98.0	58.4	39.6	24.7	13.3	4.3	—	—	—	—	238.3	12
38	120	3.5	98.1	60.5	44.7	31.0	19.3	9.9	1.7	—	—	—	265.2	6
38	130	3.5	97.7	61.3	48.3	36.2	25.1	15.1	6.8	—	—	—	290.5	16
38	140	4.0	97.0	60.7	50.5	40.3	30.1	20.4	11.5	3.2	—	—	313.7	10
38	150	4.5	95.9	59.0	51.4	43.3	34.3	25.2	16.2	8.3	0.8	—	334.4	2
40	100	3.0	107.6	60.3	36.4	19.5	8.3	0.4	—	—	—	—	232.5	2
40	110	3.0	108.2	64.4	43.6	27.1	14.6	4.9	—	—	—	—	262.8	12
40	120	3.5	108.2	66.8	49.2	34.0	21.2	10.8	2.0	—	—	—	292.2	6
40	130	3.5	107.8	67.6	53.2	39.8	27.5	16.6	7.6	—	—	—	320.1	—
40	140	4.0	107.0	67.1	55.7	44.4	33.1	22.3	12.6	3.7	—	—	345.9	10
40	150	4.5	105.8	65.2	56.7	47.6	37.8	27.6	17.8	9.1	1.0	—	368.6	4
42	110	3.0	118.9	71.1	48.1	30.0	16.1	5.6	—	—	—	—	289.8	14
42	120	3.5	118.9	73.7	54.3	37.6	23.4	12.0	2.4	—	—	—	322.3	8
42	130	4.0	118.4	74.6	58.8	44.0	30.4	18.3	8.4	.3	—	—	353.2	2
42	140	4.0	117.5	74.0	61.5	49.1	36.6	24.7	13.9	4.3	—	—	381.6	12
42	150	4.5	116.2	72.0	62.6	52.7	41.8	30.6	19.7	10.0	1.4	—	407.0	4
44	110	3.0	130.2	78.5	53.4	33.5	18.1	6.6	—	—	—	—	320.3	14
44	120	3.5	130.2	81.4	60.2	41.9	26.2	13.4	3.0	—	—	—	356.3	8
44	130	4.0	129.7	82.4	65.1	48.9	33.9	20.5	9.3	0.6	—	—	390.4	2
44	140	4.0	128.6	81.7	68.1	54.5	40.8	27.5	15.6	5.1	—	—	421.9	12
44	150	4.5	127.2	79.4	69.4	58.4	46.4	34.0	22.0	11.2	1.8	—	449.8	6
46	110	3.0	142.1	86.7	59.6	37.6	20.5	7.8	—	—	—	—	354.3	16
46	120	3.5	142.1	89.8	67.0	46.9	29.5	15.2	3.6	—	—	—	394.1	10
46	130	4.0	141.5	90.9	72.4	54.7	38.1	23.1	10.5	0.9	—	—	432.1	4
46	140	4.0	140.3	90.1	75.7	60.8	45.7	30.9	17.5	5.9	—	—	466.9	14
46	150	4.5	138.7	87.6	77.0	65.1	51.9	38.2	24.7	12.6	2.2	—	498.0	6
48	110	3.0	154.7	95.9	66.7	42.7	23.5	9.2	—	—	—	—	392.7	—
48	120	3.5	154.6	99.3	74.8	52.9	33.5	17.3	4.4	—	—	—	436.8	10
48	130	4.0	153.9	100.4	80.6	61.4	43.0	26.2	12.0	1.2	—	—	478.7	4
48	140	4.0	152.6	99.5	84.2	68.2	51.4	35.0	19.9	7.0	—	—	517.8	14
48	150	4.5	150.8	96.7	85.6	72.9	58.4	43.0	27.9	14.2	2.7	—	552.2	8

Table 2—Cubic-foot volume for western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree, given diameter at breast height (d.b.h.) in inches and total tree height in feet (continued)

D.b.h.	Tree ht.	No. of 32-ft logs	Cubic-foot volume (stump to top diameter)										Total tree vol.	Chunk length
			32-foot log position											
			0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0		
In	*Ft*												*Ft*^{3}	*Feet*
50	110	3.5	168.0	106.2	75.1	48.7	27.2	10.7	0.3	—	—	—	436.2	2
50	120	3.5	167.9	109.8	83.9	60.0	38.4	20.0	5.3	—	—	—	485.3	12
50	130	4.0	167.0	110.9	90.2	69.4	49.0	30.0	13.8	1.6	—	—	531.9	4
50	140	4.0	165.5	109.9	94.0	76.7	58.3	39.8	22.7	8.2	—	—	575.1	14
50	150	4.5	163.5	106.8	95.5	81.9	66.0	48.8	31.7	16.2	3.3	—	613.7	8
50	160	5.0	161.0	102.0	94.8	84.9	71.8	56.5	40.3	24.4	10.6	0.5	646.8	2
52	120	3.5	181.8	121.5	94.3	68.3	44.2	23.2	6.4	—	—	—	539.7	12
52	130	4.0	180.8	122.6	101.1	78.6	56.0	34.5	15.9	2.1	—	—	591.6	6
52	140	4.0	179.2	121.4	105.2	86.6	66.3	45.6	26.0	9.6	—	—	639.9	16
52	150	4.5	176.9	118.0	106.8	92.3	74.8	55.6	36.3	18.5	4.0	—	683.2	10
52	160	5.0	174.1	112.7	105.9	95.6	81.2	64.2	45.9	27.9	12.0	.8	720.3	2
54	120	3.5	196.5	134.6	106.2	78.0	51.1	27.0	7.8	—	—	—	601.2	14
54	130	4.0	195.4	135.6	113.5	89.4	64.2	39.9	18.5	2.6	—	—	659.1	6
54	140	4.0	193.5	134.2	117.9	98.2	75.7	52.4	30.0	11.2	—	—	713.1	—
54	150	4.5	190.9	130.4	119.5	104.3	85.1	63.6	41.7	21.3	4.8	—	761.6	10
54	160	5.0	187.8	124.6	118.6	107.9	92.3	73.2	52.5	32.0	13.8	1.0	803.7	4
56	120	3.5	212.1	149.2	120.0	89.4	59.2	31.6	9.2	—	—	—	670.7	14
56	130	4.0	210.7	150.2	127.8	101.8	73.9	46.2	21.5	3.2	—	—	735.3	8
56	140	4.0	208.6	148.4	132.4	111.4	86.7	60.3	34.7	13.0	—	—	795.5	—
56	150	4.5	205.8	144.3	134.1	118.2	97.1	73.0	47.9	24.6	5.7	—	850.7	10
56	160	5.0	202.3	137.8	132.9	122.0	105.0	83.7	60.2	36.7	15.9	1.4	897.9	4

Table 3—Scribner board-foot volume of western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree given diameter at breast height (d.b.h.) in inches and number of 32-foot logs

			Board-foot volume										
			Number of 32-foot logs										
D.b.h.	Tree ht.	No. of 32-foot logs	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	Total tree volume
In	*Ft*												*Bf*
10	41.0	0.5	20	—	—	—	—	—	—	—	—	—	20
10	68.0	1.0	30	20	—	—	—	—	—	—	—	—	50
12	35.4	0.5	20	—	—	—	—	—	—	—	—	—	20
12	60.0	1.0	32	18	—	—	—	—	—	—	—	—	50
12	81.1	1.5	43	27	20	—	—	—	—	—	—	—	90
12	101.1	2.0	50	38	30	20	—	—	—	—	—	—	138
14	56.2	1.0	36	14	—	—	—	—	—	—	—	—	50
14	76.1	1.5	53	29	20	—	—	—	—	—	—	—	102
14	95.2	2.0	64	53	31	19	—	—	—	—	—	—	167
16	54.3	1.0	38	12	—	—	—	—	—	—	—	—	50
16	73.3	1.5	60	33	20	—	—	—	—	—	—	—	113
16	91.7	2.0	76	58	32	18	—	—	—	—	—	—	184
16	110.0	2.5	82	70	51	27	20	—	—	—	—	—	250
18	53.4	1.0	39	11	—	—	—	—	—	—	—	—	50
18	71.7	1.5	71	37	20	—	—	—	—	—	—	—	128
18	89.5	2.0	88	62	33	17	—	—	—	—	—	—	200
18	107.2	2.5	97	81	55	29	20	—	—	—	—	—	282
18	125.2	3.0	102	96	73	59	32	18	—	—	—	—	380
20	70.9	1.5	78	42	20	—	—	—	—	—	—	—	140
20	88.0	2.0	105	64	35	15	—	—	—	—	—	—	219
20	105.3	2.5	124	90	59	31	20	—	—	—	—	—	324
20	122.9	3.0	134	111	82	60	33	17	—	—	—	—	437
22	70.5	1.5	89	39	20	—	—	—	—	—	—	—	148
22	87.1	2.0	118	72	36	14	—	—	—	—	—	—	240
22	104.0	2.5	148	107	63	36	20	—	—	—	—	—	374
22	121.2	3.0	158	134	89	63	34	16	—	—	—	—	494
24	70.5	1.5	96	40	20	—	—	—	—	—	—	—	156
24	86.6	2.0	138	76	37	13	—	—	—	—	—	—	264
24	103.0	2.5	174	122	68	37	20	—	—	—	—	—	421
24	119.9	3.0	187	148	97	66	35	15	—	—	—	—	548
26	86.3	2.0	162	83	38	12	—	—	—	—	—	—	295
26	102.3	2.5	200	130	72	39	20	—	—	—	—	—	461
26	118.9	3.0	222	166	107	68	36	14	—	—	—	—	613
26	135.9	3.5	226	192	144	106	63	36	20	—	—	—	787

Table 3—Scribner board-foot volume of western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree given diameter at breast height (d.b.h.) in inches and number of 32-foot logs (continued)

			Board-foot volume										
			Number of 32-foot logs										
D.b.h.	Tree ht.	No. of 32-foot logs	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	Total tree volume
In	*Ft*												*Bf*
28	86.2	2.0	186	94	38	12	—	—	—	—	—	—	330
28	101.8	2.5	229	141	75	42	20	—	—	—	—	—	507
28	118.1	3.0	255	190	114	73	36	14	—	—	—	—	682
28	134.8	3.5	259	211	159	121	68	37	20	—	—	—	875
30	86.2	2.0	202	102	38	12	—	—	—	—	—	—	354
30	101.4	2.5	259	165	78	44	20	—	—	—	—	—	566
30	117.4	3.0	283	213	125	77	37	13	—	—	—	—	748
30	133.9	3.5	297	255	175	129	72	39	20	—	—	—	987
30	150.8	4.0	285	259	207	163	107	68	36	14	—	—	1139
32	86.1	2.0	227	108	39	11	—	—	—	—	—	—	385
32	101.0	2.5	290	175	84	42	20	—	—	—	—	—	611
32	116.7	3.0	329	241	137	81	38	12	—	—	—	—	838
32	133.0	3.5	340	265	193	137	75	42	20	—	—	—	1072
32	149.8	4.0	327	278	236	182	113	74	37	13	—	—	1260
34	100.5	2.5	327	201	88	42	20	—	—	—	—	—	678
34	116.0	3.0	368	254	150	85	38	12	—	—	—	—	907
34	132.2	3.5	379	291	215	145	78	44	20	—	—	—	1172
34	148.9	4.0	366	312	256	199	123	79	38	12	—	—	1385
36	100.0	2.5	366	214	93	41	20	—	—	—	—	—	734
36	115.3	3.0	410	276	165	95	38	12	—	—	—	—	996
36	131.4	3.5	427	329	236	158	82	46	20	—	—	—	1298
36	147.9	4.0	417	345	280	224	135	83	38	12	—	—	1534
38	99.4	2.5	403	225	96	42	20	—	—	—	—	—	786
38	114.6	3.0	456	312	179	101	39	11	—	—	—	—	1098
38	130.6	3.5	482	361	258	177	87	45	20	—	—	—	1430
38	147.0	4.0	478	387	317	253	150	90	38	12	—	—	1725
38	163.9	4.5	434	364	342	286	211	149	80	46	20	—	1932
40	98.7	2.5	439	255	102	42	20	—	—	—	—	—	858
40	113.8	3.0	503	351	197	107	39	11	—	—	—	—	1208
40	129.7	3.5	535	425	282	193	93	45	20	—	—	—	1593
40	146.1	4.0	530	446	347	269	164	101	39	11	—	—	1907
40	162.9	4.5	497	431	373	321	236	164	85	47	20	—	2174
42	97.8	2.5	483	285	107	43	20	—	—	—	—	—	938
42	112.9	3.0	563	397	213	117	39	11	—	—	—	—	1340
42	128.8	3.5	598	482	317	219	98	46	20	—	—	—	1780
42	145.2	4.0	591	515	388	290	181	111	39	11	—	—	2126
42	161.9	4.5	554	496	423	351	258	187	92	46	20	—	2427

Table 3—Scribner board-foot volume of western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree given diameter at breast height (d.b.h.) in inches and number of 32-foot logs (continued)

D.b.h.	Tree ht.	No. of 32-foot logs	Board-foot volume										
			Number of 32-foot logs										Total tree volume
			0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	
In	*Ft*												*Bf*
44	111.9	3.0	623	457	233	127	40	10	—	—	—	—	1490
44	127.8	3.5	650	516	351	239	105	47	20	—	—	—	1928
44	144.2	4.0	647	543	433	329	201	119	39	11	—	—	2322
44	160.9	4.5	609	545	481	395	287	209	98	48	20	—	2692
46	110.9	3.0	671	495	266	140	40	10	—	—	—	—	1622
46	126.9	3.5	703	571	395	257	111	49	20	—	—	—	2106
46	143.3	4.0	703	607	488	366	224	131	40	10	—	—	2569
46	160.0	4.5	670	595	537	463	327	238	105	49	20	—	3004
48	109.9	3.0	739	535	293	162	41	9	—	—	—	—	1779
48	125.9	3.5	788	642	441	293	124	54	20	—	—	—	2362
48	142.3	4.0	771	684	545	439	254	152	41	9	—	—	2895
48	159.0	4.5	743	682	600	530	368	254	114	52	20	—	3363
50	108.8	3.0	835	590	336	184	42	8	—	—	—	—	1995
50	125.0	3.5	878	672	494	338	139	59	20	—	—	—	2600
50	141.4	4.0	852	730	620	498	289	171	42	8	—	—	3210
50	158.1	4.5	811	749	664	565	419	291	125	56	20	—	3700
50	174.9	5.0	738	702	674	616	513	415	246	148	41	9	4104
52	107.8	3.0	911	639	387	208	42	8	—	—	—	—	2195
52	124.1	3.5	952	738	565	403	161	61	20	—	—	—	2900
52	140.6	4.0	964	806	677	543	334	202	42	8	—	—	3576
52	157.3	4.5	902	818	743	666	475	329	142	60	20	—	4155
52	174.1	5.0	804	775	749	706	583	487	284	166	42	8	4604
54	106.9	3.0	1000	690	435	243	44	6	—	—	—	—	2418
54	123.3	3.5	1096	880	641	477	185	75	20	—	—	—	3374
54	139.8	4.0	1099	977	759	639	383	222	43	7	—	—	4129
54	156.5	4.5	1041	977	834	726	546	406	166	64	20	—	4780
54	173.2	5.0	902	878	836	755	652	532	322	198	42	8	5125
56	106.1	3.0	1154	843	500	286	44	6	—	—	—	—	2833
56	122.5	3.5	1221	989	704	525	214	86	20	—	—	—	3759
56	139.1	4.0	1221	1070	869	681	432	254	44	6	—	—	4577
56	155.7	4.5	1156	1074	952	798	625	475	187	78	20	—	5365
56	172.5	5.0	1052	1040	977	863	725	618	375	220	43	7	5920

Table 4—Cubic-foot volume of western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree given diameter at breast height (d.b.h.) in inches and number of 32-foot logs

			Cubic-foot volume (stump to top diameter)										
			32-foot log position										
D.b.h.	Tree ht.	No. of 32-ft logs	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	Total tree volume
In	*Ft*												*Ft*^{3}
10	41.0	0.5	6.4	—	—	—	—	—	—	—	—	—	6.4
10	68.0	1.0	7.2	4.8	—	—	—	—	—	—	—	—	12.0
12	35.4	.5	8.6	—	—	—	—	—	—	—	—	—	8.6
12	60.0	1.0	10.0	5.5	—	—	—	—	—	—	—	—	15.5
12	81.1	1.5	10.4	7.6	5.1	—	—	—	—	—	—	—	23.1
12	101.1	2.0	10.6	8.5	7.0	4.9	—	—	—	—	—	—	31.0
14	56.2	1.0	13.2	6.2	—	—	—	—	—	—	—	—	19.4
14	76.1	1.5	13.9	9.2	5.5	—	—	—	—	—	—	—	28.6
14	95.2	2.0	14.2	10.7	8.2	5.2	—	—	—	—	—	—	38.3
16	54.3	1.0	16.8	6.8	—	—	—	—	—	—	—	—	23.6
16	73.3	1.5	17.9	10.8	5.9	—	—	—	—	—	—	—	34.6
16	91.7	2.0	18.3	13.0	9.3	5.6	—	—	—	—	—	—	46.2
16	110.0	2.5	18.4	14.1	11.7	8.7	5.4	—	—	—	—	—	58.3
18	53.4	1.0	20.8	7.5	—	—	—	—	—	—	—	—	28.3
18	71.7	1.5	22.2	12.4	6.2	—	—	—	—	—	—	—	40.8
18	89.5	2.0	22.9	15.4	10.4	5.8	—	—	—	—	—	—	54.5
18	107.2	2.5	23.1	17.0	13.5	9.6	5.6	—	—	—	—	—	68.8
18	125.2	3.0	23.0	17.4	15.4	12.5	9.1	5.5	—	—	—	—	82.9
20	70.9	1.5	27.1	14.1	6.6	—	—	—	—	—	—	—	47.8
20	88.0	2.0	28.0	17.8	11.5	6.1	—	—	—	—	—	—	63.4
20	105.3	2.5	28.3	20.0	15.3	10.4	5.8	—	—	—	—	—	79.8
20	122.9	3.0	28.2	20.7	17.8	14.0	9.8	5.7	—	—	—	—	96.2
22	70.5	1.5	32.4	15.8	6.9	—	—	—	—	—	—	—	55.1
22	87.1	2.0	33.5	20.4	12.5	6.3	—	—	—	—	—	—	72.7
22	104.0	2.5	34.0	23.0	17.0	11.2	6.0	—	—	—	—	—	91.2
22	121.2	3.0	33.9	24.2	20.1	15.5	10.6	5.9	—	—	—	—	110.2
24	70.5	1.5	38.2	17.6	7.2	—	—	—	—	—	—	—	63.0
24	86.6	2.0	39.6	23.0	13.5	6.5	—	—	—	—	—	—	82.6
24	103.0	2.5	40.1	26.2	18.8	12.0	6.2	—	—	—	—	—	103.3
24	119.9	3.0	40.2	27.8	22.5	16.9	11.3	6.1	—	—	—	—	124.8
26	86.3	2.0	46.1	25.7	14.5	6.7	—	—	—	—	—	—	93.0
26	102.3	2.5	46.8	29.6	20.5	12.7	6.4	—	—	—	—	—	116.0
26	118.9	3.0	46.9	31.5	24.9	18.3	11.9	6.2	—	—	—	—	139.7
26	135.9	3.5	46.4	31.6	27.4	22.4	17.0	11.3	6.1	—	—	—	162.2

Table 4—Cubic-foot volume of western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree given diameter at breast height (d.b.h.) in inches and number of 32-foot logs (continued)

D.b.h.	Tree ht.	No. of 32-ft logs	Cubic-foot volume (stump to top diameter)										
			32-foot log position										Total tree volume
			0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	
In	*Ft*												*Ft*^{3}
28	86.2	2.0	53.1	28.6	15.5	6.8	—	—	—	—	—	—	104.0
28	101.8	2.5	54.0	33.2	22.3	13.4	6.5	—	—	—	—	—	129.4
28	118.1	3.0	54.1	35.5	27.4	19.6	12.5	6.4	—	—	—	—	155.5
28	134.8	3.5	53.7	35.8	30.4	24.5	18.2	12.0	6.3	—	—	—	180.9
30	86.2	2.0	60.6	31.7	16.6	7.0	—	—	—	—	—	—	115.9
30	101.4	2.5	61.7	36.9	24.1	14.1	6.7	—	—	—	—	—	143.5
30	117.4	3.0	61.9	36.7	30.0	21.1	13.2	6.5	—	—	—	—	169.4
30	133.9	3.5	61.4	40.2	33.5	26.6	19.4	12.6	6.4	—	—	—	200.1
30	150.8	4.0	60.4	38.6	34.8	30.0	24.4	18.2	12.0	6.3	—	—	224.7
32	86.1	2.0	68.7	35.0	17.7	7.2	—	—	—	—	—	—	128.6
32	101.0	2.5	69.9	40.9	26.1	14.9	6.8	—	—	—	—	—	158.6
32	116.7	3.0	70.2	44.2	32.7	22.5	13.8	6.7	—	—	—	—	190.1
32	133.0	3.5	69.8	44.9	36.8	28.7	20.7	13.2	6.6	—	—	—	220.7
32	149.8	4.0	68.6	43.3	38.4	32.8	26.3	19.4	12.6	6.5	—	—	247.9
34	100.5	2.5	78.6	45.1	28.1	15.7	7.0	—	—	—	—	—	174.5
34	116.0	3.0	79.1	48.9	35.6	24.1	14.5	6.8	—	—	—	—	209.0
34	132.2	3.5	78.6	50.0	40.4	31.1	22.1	13.8	6.8	—	—	—	242.8
34	148.9	4.0	77.4	48.3	42.3	35.7	28.4	20.7	13.3	6.6	—	—	272.7
36	100.0	2.5	87.9	49.6	30.7	16.5	7.1	—	—	—	—	—	191.8
36	115.3	3.0	88.5	54.1	38.7	25.8	15.2	7.0	—	—	—	—	229.3
36	131.4	3.5	88.0	55.4	44.2	33.6	23.6	14.6	7.0	—	—	—	266.4
36	147.9	4.0	86.8	53.8	46.6	39.0	30.7	22.1	14.0	6.8	—	—	299.8
38	99.4	2.5	97.4	54.5	32.8	17.4	7.3	—	—	—	—	—	209.4
38	114.6	3.0	98.1	59.6	42.1	27.7	16.1	7.2	—	—	—	—	250.8
38	130.6	3.5	97.6	61.3	48.4	36.5	25.4	15.4	7.2	—	—	—	291.8
38	147.0	4.0	96.3	59.7	51.3	42.5	33.2	23.8	14.9	7.1	—	—	328.8
38	163.9	4.5	94.1	55.0	50.5	45.2	38.4	30.6	22.4	14.2	6.9	—	357.3
40	98.7	2.5	107.5	59.7	35.4	18.5	7.6	—	—	—	—	—	228.7
40	113.8	3.0	108.2	65.5	45.9	29.8	17.1	7.5	—	—	—	—	274.0
40	129.7	3.5	107.8	67.6	53.1	39.7	27.3	16.4	7.4	—	—	—	319.3
40	146.1	4.0	106.3	66.1	56.5	46.6	36.1	25.7	15.8	7.3	—	—	360.4
40	162.9	4.5	103.9	61.2	55.9	49.8	42.1	33.3	24.1	15.1	7.2	—	392.6
42	97.8	2.5	118.0	65.3	38.3	19.7	7.8	—	—	—	—	—	249.1
42	112.9	3.0	119.0	72.0	50.1	32.3	18.2	7.8	—	—	—	—	299.4
42	128.8	3.5	118.5	74.6	58.3	43.3	29.6	17.6	7.7	—	—	—	349.6
42	145.2	4.0	116.9	73.1	62.3	51.1	39.4	27.8	17.0	7.6	—	—	395.2
42	161.9	4.5	114.3	67.9	61.9	54.9	46.2	36.4	26.2	16.2	7.4	—	431.4

Table 4—Cubic-foot volume of western redcedar (1-foot stump to a 6-inch top diameter inside bark) by half-logs and for the tree given diameter at breast height (d.b.h.) in inches and number of 32-foot logs (continued)

D.b.h.	Tree ht.	No. of 32-ft logs	Cubic-foot volume (stump to top diameter)										Total tree volume
			32-foot log position										
			0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	
In	*Ft*												Ft^3
44	111.9	3.0	130.2	79.2	54.9	35.2	19.6	8.1	—	—	—	—	327.2
44	127.8	3.5	129.8	82.3	64.2	47.5	32.3	18.9	8.1	—	—	—	383.1
44	144.2	4.0	128.1	80.9	68.9	56.4	43.3	30.4	18.3	8.0	—	—	434.3
44	160.9	4.5	125.2	75.4	68.7	60.8	51.1	40.1	28.6	17.5	7.8	—	475.2
46	110.9	3.0	142.1	87.1	60.3	38.5	21.3	8.6	—	—	—	—	357.9
46	126.9	3.5	141.7	90.8	70.9	52.4	35.5	20.6	8.5	—	—	—	420.4
46	143.3	4.0	139.8	89.5	76.3	62.4	47.9	33.4	19.9	8.4	—	—	477.6
46	160.0	4.5	136.7	83.7	76.4	67.6	56.7	44.3	31.4	19.0	8.2	—	524.0
48	109.9	3.0	154.7	95.8	66.6	42.5	23.3	9.1	—	—	—	—	392.0
48	125.9	3.5	154.3	100.2	78.6	58.2	39.3	22.6	9.1	—	—	—	462.3
48	142.3	4.0	152.2	99.0	84.8	69.4	53.2	37.0	21.8	8.9	—	—	526.3
48	159.0	4.5	148.8	92.8	85.2	75.5	63.2	49.3	34.8	20.8	8.7	—	579.1
50	108.8	3.0	167.9	105.6	73.9	47.3	25.8	9.8	—	—	—	—	430.3
50	125.0	3.5	167.5	110.6	87.3	64.9	43.8	25.0	9.7	—	—	—	508.8
50	141.4	4.0	165.3	109.5	94.4	77.6	59.5	41.2	24.0	9.5	—	—	581.0
50	158.1	4.5	161.5	103.0	95.1	84.5	70.8	55.2	38.7	22.9	9.2	—	640.9
50	174.9	5.0	156.5	91.7	89.8	85.3	76.7	64.9	51.0	36.1	21.5	8.9	682.4
52	107.8	3.0	181.9	116.5	82.3	53.0	28.9	10.6	—	—	—	—	473.2
52	124.1	3.5	181.5	122.2	97.4	72.8	49.2	27.8	10.5	—	—	—	561.4
52	140.6	4.0	179.0	121.2	105.3	87.0	66.9	46.2	26.7	10.2	—	—	642.5
52	157.3	4.5	174.9	114.3	106.4	94.9	79.7	62.0	43.4	25.3	9.9	—	710.8
52	174.1	5.0	169.4	102.2	100.8	96.2	86.6	73.2	57.3	40.4	23.8	9.5	759.4
54	106.9	3.0	196.7	128.8	92.2	59.9	32.5	11.5	—	—	—	—	521.6
54	123.3	3.5	196.3	135.2	109.0	82.0	55.5	31.2	11.4	—	—	—	620.6
54	139.8	4.0	193.5	134.2	117.9	98.0	75.5	52.1	29.8	11.0	—	—	712.0
54	156.5	4.5	189.0	126.9	119.2	106.9	90.0	70.0	48.8	28.2	10.6	—	789.6
54	173.2	5.0	183.0	113.9	113.4	108.6	98.0	82.8	64.8	45.4	26.4	10.2	846.5
56	106.1	3.0	212.4	142.7	103.7	68.0	37.0	12.7	—	—	—	—	576.5
56	122.5	3.5	211.8	149.7	122.2	92.8	63.0	35.3	12.4	—	—	—	687.2
56	139.1	4.0	208.8	148.7	132.1	110.7	85.6	59.0	33.5	12.0	—	—	790.4
56	155.7	4.5	203.8	140.8	133.8	120.7	102.0	79.4	55.1	31.5	11.5	—	878.6
56	172.5	5.0	197.3	126.9	127.7	122.9	111.1	94.0	73.4	51.2	29.5	11.0	945.0

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